

*This data is provided in accordance with OMB Memorandum M-13-13 - Open Data Policy-Managing Information as an Asset , dated 9-May-2013

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Federal Aviation Dashboard Cost and utilization





FY18 Aviation Open Data Set Summary

Overview of the annual Aviation Open Data Set

The annual Federal Aviation Open Data Set is compiled from Federal aircraft inventory, aircraft costs and aircraft utilization (flight hour) data submitted to the Federal Aviation Interactive Reporting System (FAIRS) each fiscal year by Federal agencies (non-DOD) that have aviation programs.

The Office of Management and Budget (OMB) initially established the requirement to develop "...a government-wide aircraft management information system" in the January 18, 1989 version of OMB Circular A-126 Improving the Management and Use of Government Aircraft , which was subsequently revised on May 22, 1992 and included additional language that further directed GSA to develop "...generic aircraft information system standards and software".

Federal Government aircraft mission profiles

The Federal Government uses aircraft to support various missions that include the management of natural resources, scientific research, search and rescue, firefighting, marine safety, research and development, and law enforcement activities. The Federal Government owns and operates its own aircraft, and also leases, charters, and rents aircraft through Commercial Aviation Services (CAS) providers.

Types of Data Collected:

The Federal Aviation Open Data Set includes total flight hours and is further broken down to identify Federal (owned aircraft) flight hours as well as Commercial Aviation Services (CAS) flight hours. Additionally, the Federal Aviation Open Data Set also includes total aviation program operating costs, and is also further broken down to identify Federal operating costs (for owned aircraft) and CAS operating costs.

Key Statistics:

Operational Aircraft Inventory

As of 03/12/19 the Federal Operational Aircraft Inventory included 824 operational aircraft, which is a decrease of 35 Federal operational aircraft since FY17:

Airplanes 458 (decrease of 19)
Helicopters 347 (decrease of 17)
Glider 0 (unchanged)
Unmanned Aircraft Systems 19 (increase of 1)
Total aircraft 824 (net decrease of 35)

Aircraft models, manufacturers and average age

The Federal aircraft fleet consists of 136 different models that are produced by 43 manufacturers. Federal operational aircraft, on average, are 29 years old.

Aviation Program Costs

Total FY18 Aviation program operating costs: \$1,598,671,335.

Significant Program Increases and Decreases in FY18:

The Federal aviation community (Non-DoD) supported total aircraft utilization of 705,364 hours in FY18, which represents a significant <u>increase</u> of 289,061 hours or 69.44% over FY17. Federal utilization totaled 245,257 hours, which was a slight <u>decrease</u> of 3,905 hours or 1.57% over FY17, while CAS utilization totaled 460,107 hours, which represents an <u>increase</u> of 292,966 hours or 175.28% over FY17.

Federal agencies paid \$1,598,671,335 to operate their Federal fleet aircraft and to acquire Commercial Aviation Services (CAS) in FY18. This total was an <u>increase</u> of \$409,156,651 or 34.40% from FY17. Federal costs totaled \$620,778,838 and was a <u>decrease</u> of \$52,337,101 or 7.78% from FY17, while CAS costs for FY18 totaled \$977,892,497 which was an <u>increase</u> of \$461,493,752 or 89.37% over FY17.

FY18 aircraft utilization data indicated that, of 13 reporting agencies, the Department of Agriculture reported the <u>largest percentage increase</u> in utilization hours of 301,491 hours or 294.60% over FY17, while the Environmental Protection Agency reported the <u>largest</u> percentage decrease in utilization hours of 209 hours or 80.34% over FY17.

FY18 aircraft cost data indicated that the Department of Agriculture reported the <u>largest increase</u> in aviation program costs of \$407,624,338 or 143.67%, while the Department of State reported the <u>largest decrease</u> in aviation program costs of \$62,305,597 or 22.83%.

Overall, Federal utilization and Federal costs are steady, while CAS utilization and costs have significantly increased.

Federal Aviation DashboardCost and utilization





Select Agency

All

▲ Indicates an increase From Previous Year

▼ Indicates a reduction From Previous Year

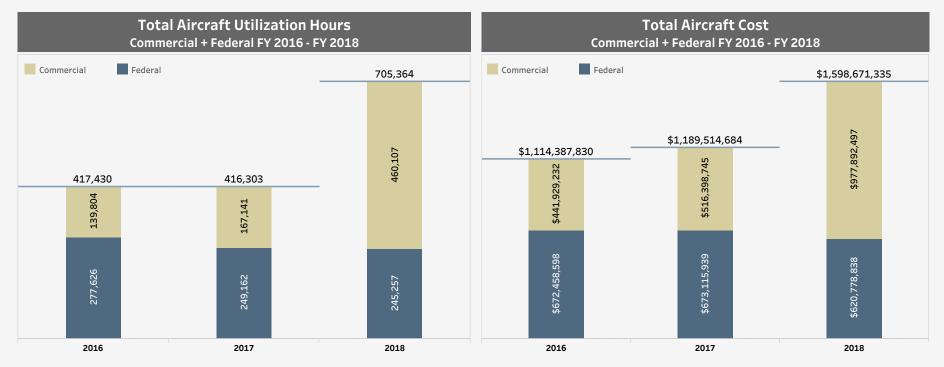
* Utilization refers to total flight hours, Research & Development (R&D) and Alert hours)

Percent Difference in Total Aircraft Utilization Hours Commercial + Federal FY 2017 - FY 2018

▲69.44%

Percent Difference in Total Aircraft Cost
Commercial + Federal FY 2017 - FY 2018

A34.40%



Note: The substantial increase in FY18 aircraft utilization and aircraft costs can be attributed to system enhancements made to GSA's Federal Aviation Interactive Reporting System (FAIRS) to more accurately capture total overall aviation costs and total utilization (hours). Beginning in FY18, GSA incorporated two additional mission codes (availability and standby) within the FAIRS information system that enable the reporting of aviation costs and alert hours that are not associated with actual mission flights. The USDA Forest Service largely utilizes Commercial Aviation Services (CAS) where contractors are paid daily availability and standby rates if the aircraft meets the requirements to be dispatched. With these FAIRS system modifications, the FY18 Aviation Open Data Set - Tableau visualizations is more reflective of the USDA Forest Service's total overall costs, flight hours, and alert hours for aviation services as compared to previous Fiscal Year Aviation Open Data sets (reports) that only reflected actual flight time and associated flight costs.

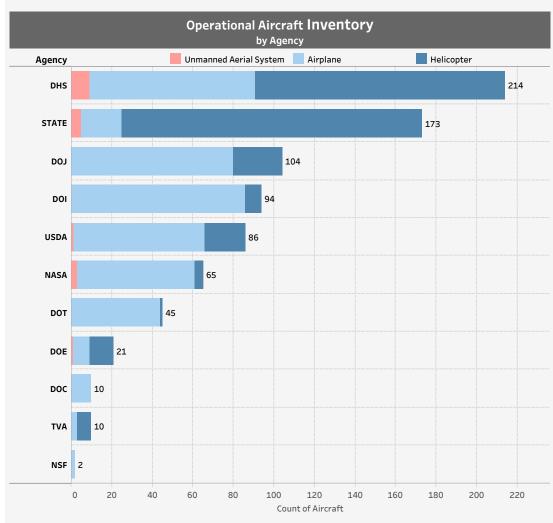
Federal Aviation Dashboard FY 2018 Federal Aircraft Inventory

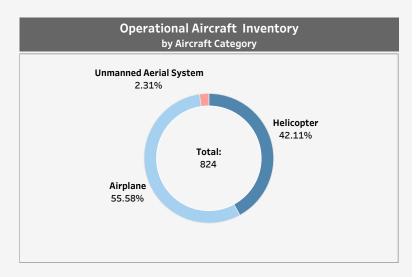


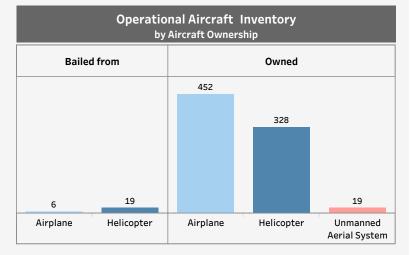
Select Agency

Select Aircraft Category

Select Ownership







*Click on an agency to filter graph

Federal Aviation Dashboard Aircraft Hours

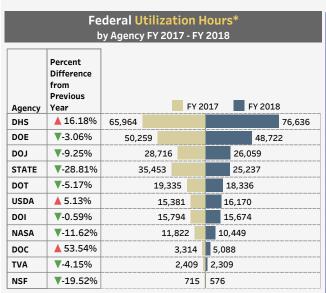


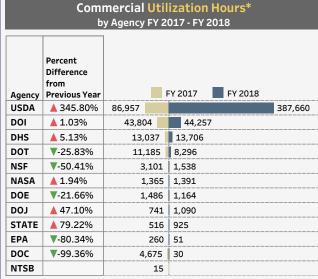
Select Measure (Utilization Hours*/ Flight Hours) Select Aircraft Category **Utilization Hours***

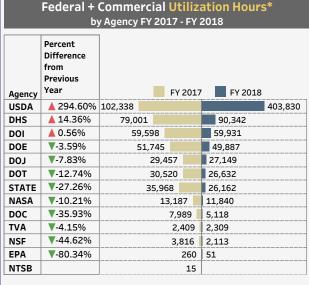
All Categories

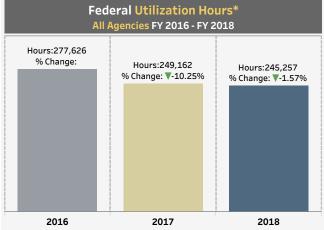
Select Agency All Agencies

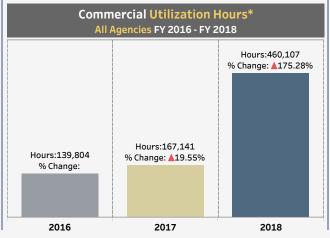
- ▲ Indicates an increase in Utilization Hours* From Previous Year
- ▼ Indicates a reduction in Utilization Hours* From Previous Year
- * Utilization refers to total flight hours, Research & Development (R&D) and Alert hours)

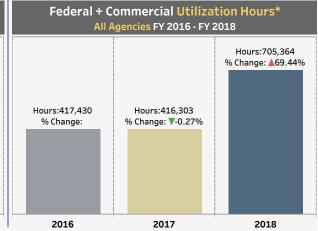








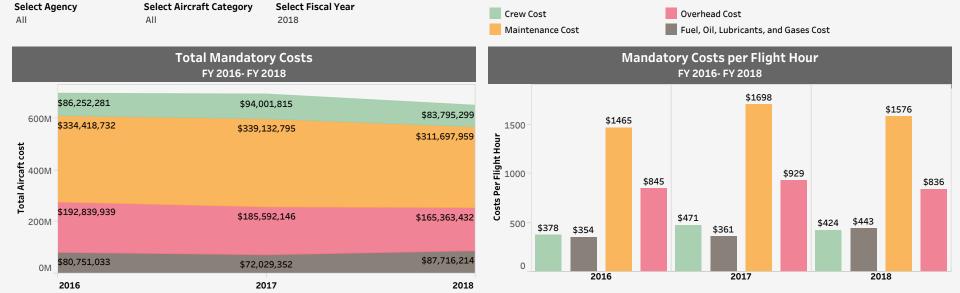




Federal Aviation Dashboard Mandatory Costs









*Mandatory Cost: Fuel, Maintenance, Administrative and Overhead costs are required to be captured by each agency in the Federal Aviation Interactive Reporting System (FAIRS) application

^{*} Mandatory Costs per Flight Hour: Shows the average cost per operating flight hour

^{*} Overall Observations:

^{1.} Mandatory costs are relatively stable FY16 - FY18 with the proportion of/for each type of mandatory costs remaining relatively stable.

^{2.} Maintenance costs is the largest mandatory cost of the (4) categories.

^{3.} Maintenance costs per hour for aircraft in the 40-49 year range double over aircraft in the 30-39 year category. Aircraft in the 50-59 year range increase 2½ times per hour.

Federal Aviation Dashboard Federal Aircraft Cost





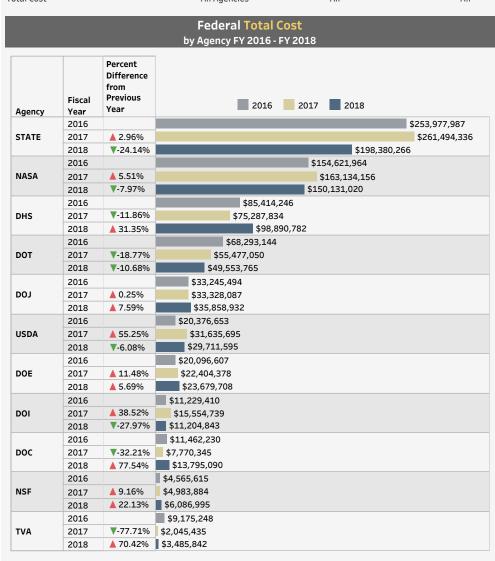
Select Measure (Total Cost/ Cost per Hour) Select Agency **Total Cost**

All Agencies

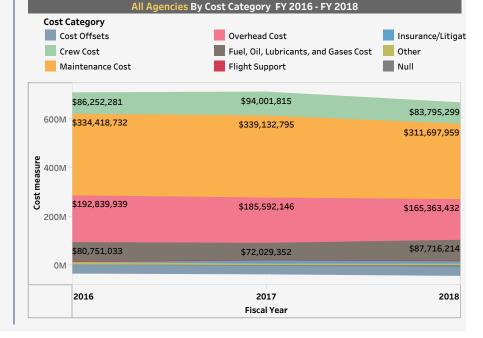
Select Mission

Select Cost Category

▲ Indicates an increase in Total Cost From Previous Year ▼ Indicates a reduction in Total Cost From Previous Year







Federal Aviation Dashboard Commercial Aircraft Cost





Select Measure (Total Cost/ Cost per Hour)

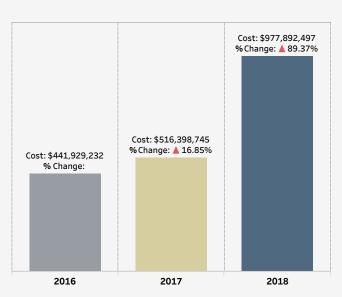
Total Cost





▲ Indicates an increase in Total Cost From Previous Year
▼ Indicates a reduction in Total Cost From Previous Year

Commercial Total Cost All Agencies FY 2016 - FY 2018



Note: The substantial increase in FY18 aircraft utilization and aircraft costs can be attributed to system enhancements made to GSA's Federal Aviation Interactive Reporting System (FAIRS) to more accurately capture total overall aviation costs and total utilization (hours). Beginning in FY18, GSA incorporated two additional mission codes (availability and standby) within the FAIRS information system that enable the reporting of aviation costs and alert hours that are not associated with actual mission flights. The USDA Forest Service largely utilizes Commercial Aviation Services (CAS) where contractors are paid daily availability and standby rates if the aircraft meets the requirements to be dispatched. With these FAIRS system modifications, the FY18 Aviation Open Data Set - Tableau visualizations is more reflective of the USDA Forest Service's total overall costs, flight hours, and alert hours for aviation services as compared to previous Fiscal Year Aviation Open Data sets (reports) that only reflected actual flight time and associated flight costs.

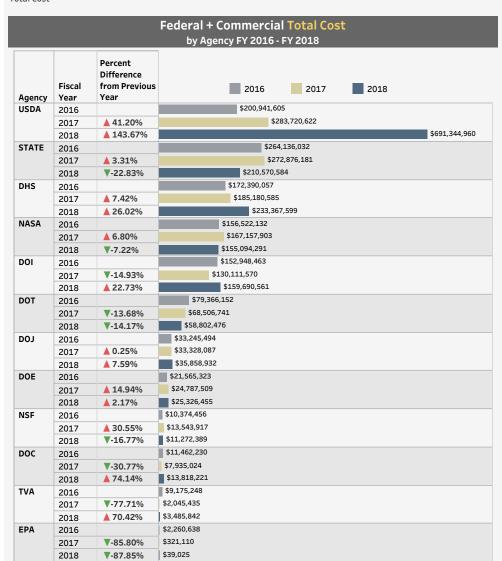
Federal Aviation Dashboard Federal + Commercial Aircraft Cost





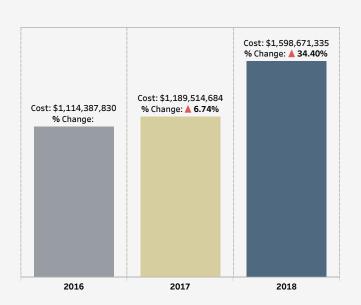
Select Measure (Total Cost/ Cost per Hour)

Total Cost



▲ Indicates an increase in Total Cost From Previous Year
▼ Indicates a reduction in Total Cost From Previous Year

Federal + Commercial Total Cost All Agencies FY 2016 - FY 2018



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